



Mr. John Grantham State of Washington Department of Ecology Nuclear & Mixed Waste Program P. O. Box 47600 Olympia, WA 98504-7600 FLUOR DANIEL, INC

Date: April 26, 1994

Reference: Hanford Waste Vitrification Plant

DOE Contract DE-AC06-86RL10838

Fluor Contract 8457

Transmittal No.: WDOE-919

Dear Mr. Grantham:

TRANSMITTAL

We enclose 2 copy of the items listed below. These are issued per US-DOE request.

Response due to Fluor: N/A

Responds to: A160 PACKAGE

NUMBER	REV	DATE	TITLE
DCN - 0184	0	04/26/94	REVISION OF ACCEPTABLE VIBRATION LIMITS OF PUMPS
			"APPROVED FOR CONSTRUCTION"

Reference: FRP-1437, FUP-854

Distribution:

R. L. Long: DOE-RL, w/O

TWP/AME Corresp Cntrl Cntr, MSIN A5-10

(A160 PACKAGE), w/O

P. Felise, WHC-RL (MSIN G6-06), w/1

Environmental Data Management Center

(MSIN H6-08), w/1

D. Duncan, US EPA, Region X, w/O

M.D. Talbot, WHC -w/0

Very truly yours,

Nazy Eshraghi For

R.S. Poulter Project Director

RSP:DGL:fps



S FLUOR DANIEL 95/3358_0497	DCN - 0184	REV	0	PAGE 1 OF 5
US DEPARTMENT OF ENERGY	DCN TITLE			DATE INITIATED
DESIGN CHANGE NOTICE	limits of pumps.			25 April 1994
DESIGN CHANGE NOTICE				PACKAGE NO. A160
SECTION 1: DESCRIPTION OF CHANGE				
This DCN revises the acceptable vibration PX-500-002A/B Firewater Pumps PX-500-004 Jockey Pump PX-530-013A/B Effluent Discharge Sump Pump PX-530-015 Effluent Discharge Sump Pump PX-500-016 Efffluent Discharge Sump Pump This change is made per WHC direction. FOR LIST OF AFFECTED DOCUMENTS, SEE SECT	ımps	nps:	CHA CHACKET CH	JSE OF ANGE: Field Change Request Supplier Disposition Deficiency Report Design Development Change Request TBD/Hold Other Title III Review FULL Request -1649 -1C 9452439)
SECTION 2: EVALUATION] //IIua	ating Document(s)
	VIEW REQUIRED BY: AND	TIEWER CO SIGNATU	URE/DA	
SECTION 3: APPROVED FOR CONSTRUCTION	7			
Originator Date	- <u>RIBedU m</u> Project/Residedt Ei	Mul ngineer	m/s	07/0-4/26/9
SECTION 4: CONCURRENCE	SECTION 5: RELEASE	D FOR	CON	STRUCTION
Project Management Date	PE STAMP REQUIRED?		э 🗷	YES
Systems Date	WHC			Date
Independent Safety Date	UCAT			Date
Quality Assurance Date	DOE			Date
Configuration Management Date				
COMMENTS:			,	



US DEPARTMENT OF ENERGY HANFORD WASTE VITRIFICATION PLANT

DCN - 0184	0	Mech	A160	2
!	REV	DISCIPUNE	PKG. NO.	PAGE

PREPARED BY: D. G. LaBounty

Date: 25 April 1994

DESIGN CHANGE NOTICE

DISCIPLINE ENGINEER: D. G. LaBounty Date: 25 April 1994

SECTION 6: CO	NSTRUC	TION C	OCUMENTS AFFECTED		
DOCUMENT	SHT/	REV		INCLD	
NUMBER	PAGE	<u>NO</u>	DOCUMENT NAME	Y/N	DESCRIPTION OF CHANGE
B-595-C-A160- 15145	7	1	Sump Pumps	Yes	Revised acceptable vibration limits.
B-595-C-A160- 15540	9	1	Fire Water System Pumps	Yes	Revised acceptable vibration limits.
B-595-C-A160- 15541	7	1	Fire Water Unit Heater Pump	Yes	Revised acceptable vibration limits.

SECTION 7: NON-CONSTRUCTION DOCUMENTS AFFECTED.

REV

This section references affected items such as P&IDs or calculations/analyses, but they are generally not included in DCN package.

DOCUMENT NUMBER

SHT/

PAGE NO

DOCUMENT NAME

DESCRIPTION OF CHANGE

N/A

2.2.4 Vibration

YS LOOSE LIFY

Delete the second sentence beginning with "Peak-to-peak limits measured ..." including the table following, and replace with:

"The acceptable peak-to-peak vibration limits measured on the bearing housing for anti-friction bearings shall be in accordance with the Hydraulic Institute standards.

For sleeve bearings, the acceptable limits of vibration measured on the shaft at the sleeve bearing shall be 3 mils maximum."

FLUOR DANIEL		IENT OF ENERGY VITRIFICATION PLANT	DESIGN CHANGE NOTIC		
DESCRIPTION OF CHANGE Revision of acceptable vibration limits for pumps.		BASE DOC. NO. B-59 SHT/PG. 7 DISCIPLINE: Mecha	15145	60- REV. 1	
PREPARED BY: D. G. LaBou	unty	DATE: 25Apr94		REV	PAGE
DISCIPLINE ENGINEER: D. G. I	LaBounty	DATE: 25Apr94	DCN - 0184	0	3

2.2.5 Vibration 9513358.0500

Delete the third sentence beginning with "Peak-to-peak limits ..." including the table following, and replace with:

"The acceptable peak-to-peak vibration limits measured on the bearing housing for anti-friction bearings shall be in accordance with Hydraulic Institute standards."

FLUOR DANIEL U.S. DE HANFORD V	DESIGN CHANGE NOTICE			
DESCRIPTION OF CHANGE Revision of acceptable vibration limits	or pumps.	BASE DOC. NO. B-59: SHT/PG. 9 DISCIPLINE: Mechan	15540	60- REV. 1
PREPARED BY: D. G. LaBounty	DATE: 25Apr94		REV	PAGE
DISCIPLINE ENGINEER: D. G. LaBounty	DATE: 25Apr94	DCN - 0184	0	4

2.2.5 Vibration	951.	JJJ.	ST. Collection

Delete the third sentence beginning with "Peak-to-peak limits ..." including the table following, and replace with:

"The acceptable peak-to-peak vibration limits measured on the bearing housing for anti-friction bearings shall be in accordance with the Hydraulic Institute standards."

				
FLUOR DANIEL U.S. DEPARTMENT OF ENE HANFORD WASTE VITRIFICATION	DESIGN CHANGE NOTICE			
DESCRIPTION OF CHANGE	BASE DOC. NO. B-595-C-A160-			
Revision of acceptable vibration limits for pumps.	15541 sht/pg. 7 пеу. 1			
	DISCIPLINE: Mechani	cal		
PREPARED BY: D. G. LaBounty	DATE: 25Apr94		REV	PAGE
DISCIPLINE ENGINEER: D. G. LaBounty	DATE: 25Apr9 4	DCN - 0184	0	5